Education for Sustainability Initiatives

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Panel Discussion: Education for the Future

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EPA: Office of Research and Development

Jaimie P. Cloud:

Sustainability Education Center, NY

Alan Elzerman:

Clemson University

Sally Shuler:

NAS and Smithsonian



Education for Sustainability

"There is nothing more essential in moving toward the long-term goal of sustainability than teaching the next generation how to incorporate sustainability principles into their work."

Dr. Paul Gilman, EPA Science Advisor and Assistant Administrator for Research and Development



Educational Themes

- Build capacity
- Professional training
- K-12 foundations
- Inform the Public

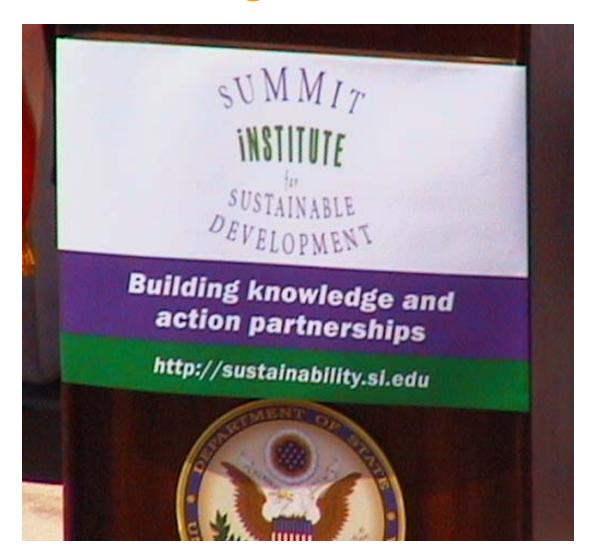


for sound

decisions

environmental

World Summit Institute for Sustainable Development, Johannesburg, South Africa, 2002

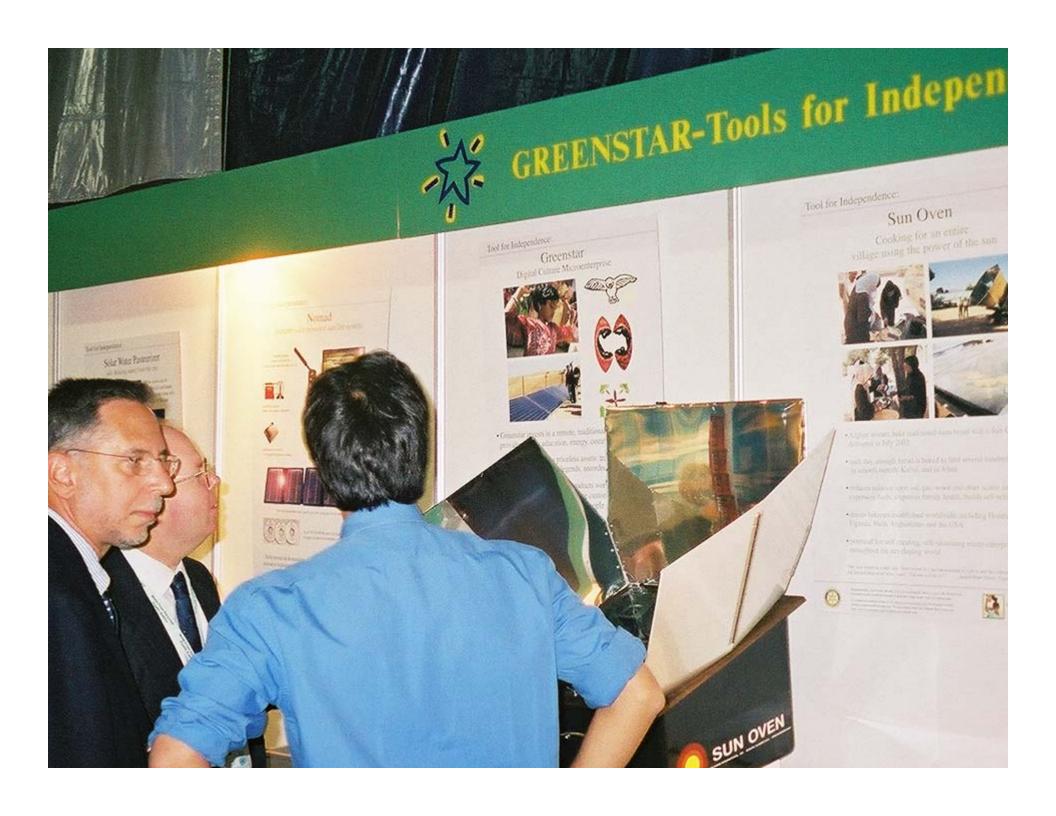






Sustainability Challenges

- 2.8 billion people live on less than \$2/day; 1.1 billion people lack safe drinking water
- 2 billion people lack access to modern energy supplies
- 2.3 billion people lack access to sanitation
- 3 billion additional people by 2050: 99% of which will be in developing countries





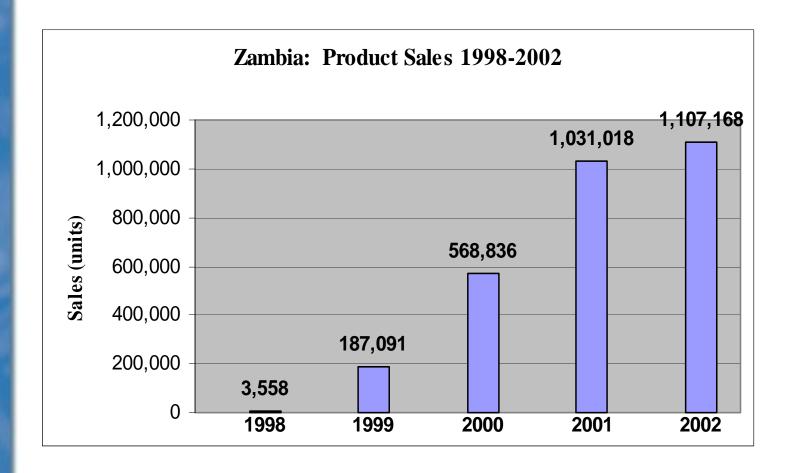
Social Marketing



Children review uses of safe water presented in a flip chart developed by PSI in conjunction with its safe water and hygiene campaign in Afghanistan.



Social Marketing: Disinfectant in Zambia





UN Decade of Education for Sustainable Development

- Promote and improvement of high quality, relevant basic education;
- Reorient existing education policies and programs to address the social, environmental and economic knowledge
- Develop public understanding and awareness of the principles of sustainable development;
- Develop training programs to ensure that all sectors of society have the skills necessary to perform their work in a sustainable manner.



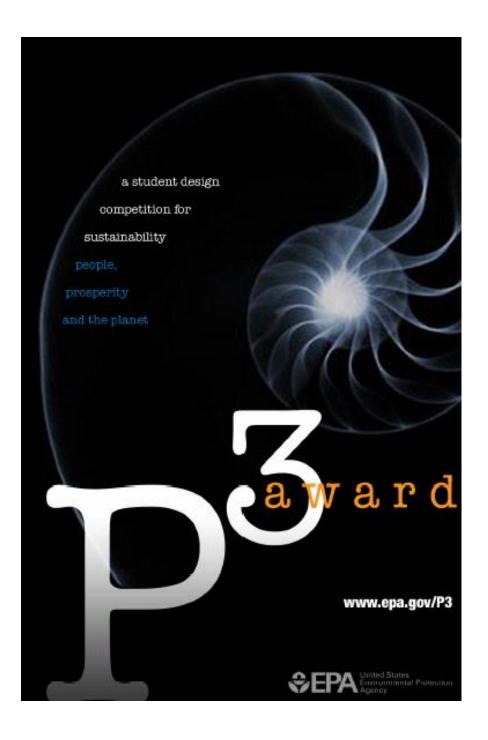
The Next Generation

- Student Design Competition
- Engineering and Chemical school curricula
- Information and tools kits
- Universities/Schools as centers for sustainable operations
- Reports on the environment

Future: Is there a need for centers that promote sustainable education at all levels?

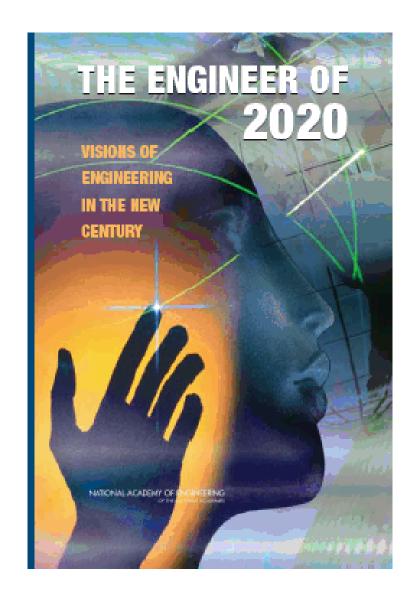


The P3 Award





EPA/NSF sponsored workshop at the National Academy of **Engineering**





Benchmarking the Integration of Sustainability into Curricula at Colleges and Universities









Outreach





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A-Z Index

Sustainability is the ability to achieve economic prosperity while protecting the natural systems of the planet, and providing a higher quality of life for its people. Individuals, communities and institutions are developing and implementing sustainability practices with the help of dozens of EPA programs, partnerships and policy tools. This site provides links to many EPA programs and tools that contribute to sustainability. These are organized into three main areas:

Planning & Practices



Programs and tools that anticipate new problems; assist in long-range, integrated planning; help educate a new generation of leadership; and promote the integration of social, economic and environmental policies. | More

Scientific Tools & Technology

Programs and tools that use underlying scientific and engineering knowledge to support the development of sustainability tools and techniques. | More Info |



Measuring Progress



Programs and tools that provide a science-based foundation for monitoring and assessing trends in the environment and support decision-making in government, businesses and communities.

"Through the power of collaborative networks and partnerships, federal agencies, state governments, and the industrial and scientific communities can come together to achieve the goal of sustainability for people, prosperity and the planet."

-- Michael O. Leavitt, Administrator U.S. Environmental Protection Agency

Events

P3 Award: A student design competition for sustainability

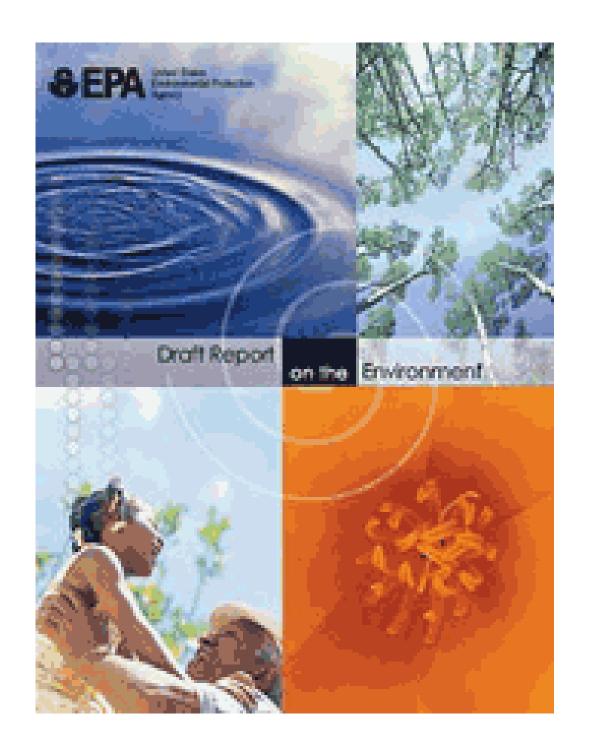
EPA Science Forum 2004: Healthy Communities and Ecosystems

UN Commission on Sustainable Development, 12th Session EXIT disclaimer➤, April 14-30, 2004, New York, N.Y.

Business and Sustainability Conference EXIT disclaimer ➤, June 9-11, 2004, New York, N.Y.









Envirofacts: one stop source for environmental information





Looking Ahead: info-bionano-technologies

